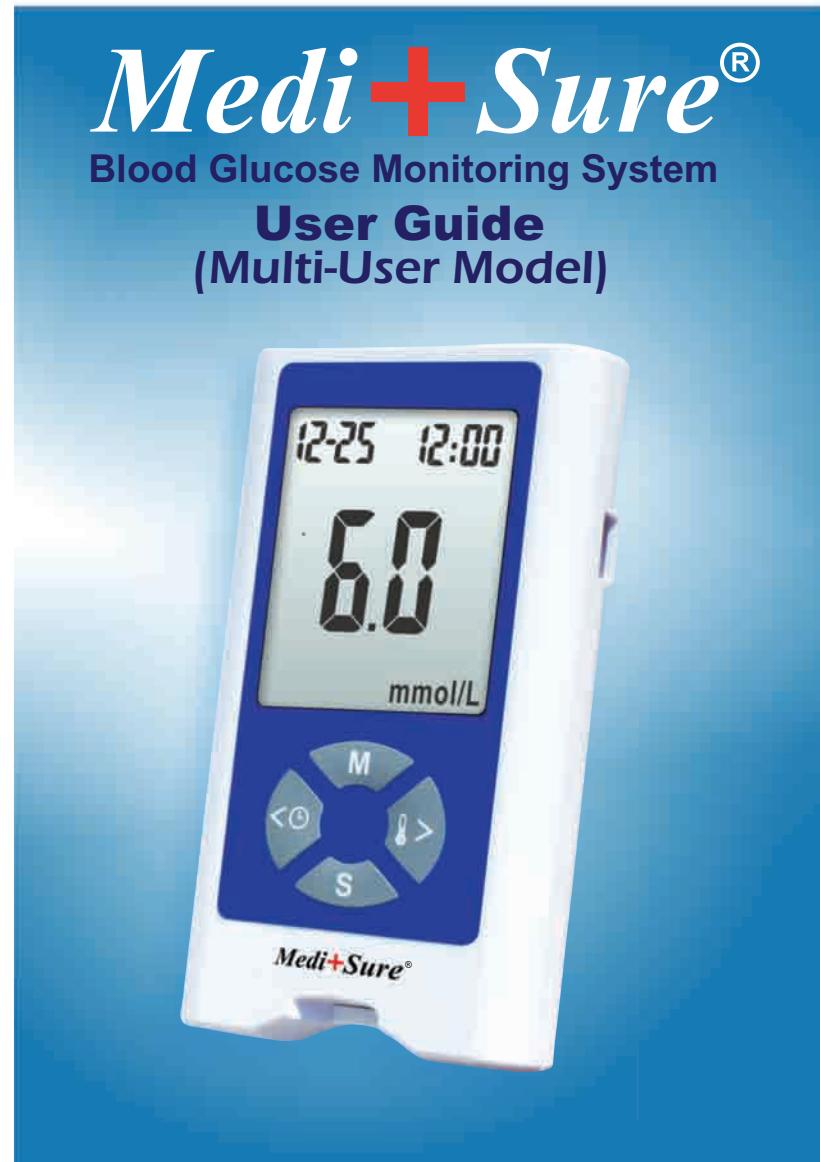


# Medi+Sure®



Medi+Sure Canada Inc.  
31A-328 Speedvale Ave. East, Suite 160,  
Guelph , Ontario,  
N1E 0J4, Canada.  
[www.medisure.ca](http://www.medisure.ca)  
Toll Free: 1-855-MDI-SURE (634-7873)  
Fax: 855-329-5302  
E-mail: [info@medisure.ca](mailto:info@medisure.ca)



**Multi-Patient User Guide - Table of Contents**

INTRODUCTION .....	1
TESTING PRINCIPLE .....	2
INDICATIONS FOR USE .....	3
IMPORTANT SAFETY INSTRUCTIONS.....	4
CONTENTS AND SPECIFICATIONS.....	5
Kit Contents .....	5
Meter Specifications .....	5
Test Strip Specifications .....	5
System Operating Conditions.....	6
ABOUT THE Medi+Sure® SYSTEM.....	7
Medi+Sure® LCD Display.....	7
Medi+Sure® Blood Glucose Test Strip .....	8
HOW YOUR SYSTEM WORKS.....	9
Installing or Replacing the Battery .....	9
Setting the Date & Time.....	9
Alarm Setting .....	10
Reviewing Results in Memory .....	11
Viewing Date, Time or Temperature .....	12
Alarm Notes .....	13
BLOOD SAMPLING AND TESTING .....	14
Finger Tip Blood Sampling.....	14
Testing Your Blood Glucose.....	14
Testing Control Samples.....	16
HOW TO CLEAN AND DISINFECT YOUR DEVICE .....	17
STEP 1: Clean Before Disinfecting.....	17
STEP 2: Disinfect After Cleaning .....	17
Why is the disinfection of this device required? .....	18
Parts of the medical devices will require cleaning and disinfection .....	18
Information of CaviWipe disinfectant .....	19
IMPORTANT NOTES .....	20
Caring For Your Meter.....	20
Handling & Storage .....	20
Explanation of Displays .....	20
ERROR MESSAGES AND TROUBLESHOOTING.....	23
EXPECTED VALUES <sup>1</sup> .....	25
METER WARRANTY .....	26
Log Book .....	27



## INTRODUCTION

We would like to thank you for making a smart decision.

The **Medi+Sure®** Blood Glucose Monitoring System is designed for Canadians.

The compact and portable **Medi+Sure®** Blood Glucose Meter is easy to use, and displays test results in only 6 seconds. In addition, the meter automatically stores up to 960 test results with respective dates and times, which allows you to monitor your Diabetes program efficiently.

We thank you once again for your support. Before testing, please read this User's Guide thoroughly. It contains all the information you need regarding the **Medi+Sure®** Blood Glucose Monitoring System. If you have product related questions please call our Customer Assistance line at 1-855-634-7873 from 8:00 AM to 6:00 PM, Eastern Standard Time Monday through Friday. For customer assistance outside these times, please leave a message with your full contact information including a contact phone number. In case of a medical emergency, please contact your health care provider.

## TESTING PRINCIPLE

The **Medi+Sure®** Blood Glucose Monitoring System is designed to provide an easy, accurate method for determining capillary blood glucose values. This analysis is based on amperometric technology using glucose oxidase that is specific for the blood glucose measurement.

## **INDICATIONS FOR USE**

The **Medi+Sure®** Blood Glucose Monitoring System is intended for use in the quantitative measurement of glucose in fresh capillary whole blood from the finger. It is to be used as an aid in monitoring the effectiveness of a Diabetes control program. It is not intended for the diagnosis of, or screening for diabetes mellitus, and is not intended for use on neonates.

Because this is a multi-user device, the disinfection protocol found on pages 17-19 must be followed after each use.

## IMPORTANT SAFETY INSTRUCTIONS

Users must adhere to Standard Precautions when handling or using this device. All parts of the glucose monitoring system should be considered potentially infectious and are capable of transmitting blood-borne pathogens between patients and healthcare professionals.

- The **Medi+Sure®** meter should be disinfected after use on each patient. This Blood Glucose Monitoring System may only be used for testing multiple patients when Standard Precautions and the manufacturer's disinfection procedures are followed.
- Only auto-disabling, single use lancing devices may be used with this device.

For more information, refer to "*Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings 2007*",

<http://www.cdc.gov/hipac/2007ip/2007isolationprecautions.html>

# CONTENTS AND SPECIFICATIONS

## Kit Contents



- Medi+Sure® Multi-Patient Blood Glucose Meter
- 3-Volt Lithium Coin Battery (CR2032)
- User's Guide
- Getting Started Guide
- Carrying Case

## Meter Specifications

<b>Storage Conditions</b>	Temperature: -20°~+50°C Humidity RH $\leq$ 80%
<b>Memory Capacity</b>	960 test results with respective dates and times
<b>Measurement Unit</b>	mmol/L
<b>Display</b>	LCD display
<b>Reaction Time</b>	6 Seconds or less
<b>Meter Dimensions</b>	54x93x16 Millimeters
<b>Meter Weight</b>	53 Grams (with battery)
<b>Measuring Range</b>	1.1~41.7 mmol/L
<b>Power Supply</b>	One 3 Volt lithium battery (Model CR2032)
<b>Battery Lifetime</b>	Over 1,000 tests

## Test Strip Specifications

<b>Strip Size</b>	35 $\times$ 6 $\times$ 0.6 Millimeters
<b>Storage Conditions</b>	Temperature: 2°~30°C Humidity: RH $\leq$ 80%
<b>Blood Volume</b>	0.6 $\mu$ L
<b>Expiration of Test Strips</b>	See printed expiry on the side of test strip box or vial

<b>System Operating Conditions</b>	
Test Strips	Use only Medi+Sure Blood Glucose Test Strips
Operating Conditions	Temperature: 10°~40° C      Humidity: RH $\leq$ 80%
Sample Type	Capillary whole blood in finger
Hematocrit of Tested Blood	25%~60%
Altitude Limit	To be used no higher than 10183 feet above sea level
<b>The meter is calibrated to capillary whole blood equivalent results</b>	

## ABOUT THE Medi+Sure® SYSTEM

### Medi+Sure® LCD Display Show Blood Glucose Test Results and Messages

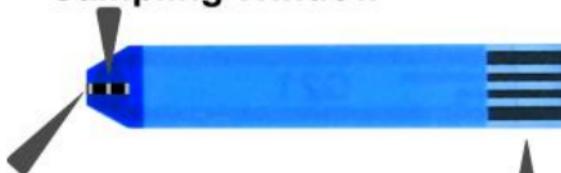


### Medi+Sure® Meter Back



## Medi+Sure® Blood Glucose Test Strip

### Sampling Window



### Application Point

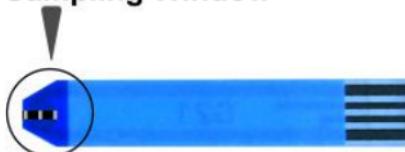
apply blood or control solution here

### Black Coloured Bars

Insert this end with black bars facing up into the test strip port

How to determine whether blood sample is sufficient

### Sampling Window



Sufficient Sample



Insufficient Sample

### NOTE:

If the sample is sufficient, the sampling window on the test strip should be full with no white space showing.

# HOW YOUR SYSTEM WORKS

## Installing or Replacing the Battery



Your **Medi-Sure®** Blood Glucose Monitoring System is packed with one 3-volt lithium coin battery that needs to be installed before testing. The battery will last for approximately 1,000 tests. Always keep spare batteries on hand. When the battery symbol appears on the display, it means your battery is low.

Although the meter will still provide accurate results, the battery should be replaced as soon as possible. After the battery is replaced, reset the date, and time.



1. Open the battery cover by pressing on it and sliding it in the direction of the arrows on the battery cover.
2. If replacing battery, remove the old battery.
3. Insert a new battery firmly with the positive (+) side up.
4. Replace the battery cover. The LCD will display "Set."
5. Reset the date, time.

## Setting the Date & Time



1. Press and hold the button for 3 seconds.
2. You will hear a beep and the meter will power on.
3. The LCD display shows date, time, temperature and thermometer symbol on the screen.
4. Press the button and the year flashes on the screen.
5. Press the button or the button until the correct year is displayed.
6. Press the button again, the month flashes on the LCD screen.
7. Press the button or button until the correct month is displayed.
8. Press the button. The day flashes.
9. Press the button or button until the correct day is displayed.

10. Press the  button. The hour flashes.
11. Press the  button or  button until the correct hour is displayed.
12. Press the  button. The minutes flash.
13. Press the  button or  button until the correct minutes are displayed.
14. Press the  button. The unit "mmol/L" is displayed.
15. Press the  button. The temperature unit ("C) is displayed.
16. Press the  button. The meter beeps and shuts off. All settings will be saved.

### **NOTE:**

To quickly adjust any function, keep pressing the  or  button until the one you want appears. At any point, if you want to shut the meter off, press the  button for about 3 seconds and all setting will automatically be saved.

### **Alarm Setting**

Press and hold the  button for 3 seconds.

You will hear a beep and the meter will power on. The LCD display lights up

Press the  button to activate the alarm and alarm symbol  flashes on the screen. You can set the alarm on or off by pressing the  or  button.

- 4) Press the  button again, the hour flashes on the LCD screen.
- 5) Press the  or  button until the correct hour is displayed.
- 6) Press the  button. The minute flashes.
- 7) Press the  or  button until the correct minutes is displayed.
- 8) Press the  button, the meter beeps. The LCD display shows "ok".
- 9) Pressing the  button, you can set AL 2 through 4.
- 10) Press the  button at least 3 seconds, the meter beeps. After "SAVE" displays on the screen, the meter shuts off. All settings will be saved.

## Reviewing Results in Memory

The **Medi+Sure®** Blood Glucose Meter automatically stores up to 960 test results with date and time. You can review test results from the newest to the oldest. Results stored in memory will not be lost when you replace the battery.

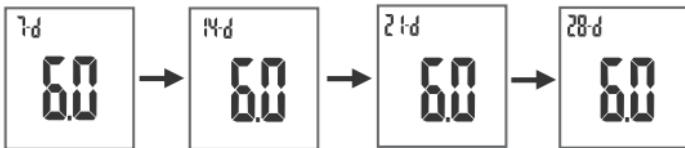
1. Press the  button to turn on the meter.
2. When the test strip symbol flashes, press the  button again. The 7 day average result will be shown on the screen for 1 minute. If there are no tests recorded in the meter, “----” is displayed.
3. Press the  button again, the 14 day average result will be shown on the screen for 1 minute.
4. Press the  button again, the 21 day average result will be shown on the screen for 1 minute.
5. Press the  button again, the 28 day average result will be shown on the screen in 1 minute.
6. At any point, if you wish to shut the meter off, press the  button.
7. To view the individual test results, go to At the 7 day average result, press the  button again and the last test results in memory will be displayed, the latest test result will be shown for one minute. The number in memory (e.g. 001) will flash followed by the result. The date and time will be displayed at the top of the screen.
8. Press the  or  button to review your test result history.
9. To view the sequence of test results in the memory, continue to press the  or  button.
10. To quickly recall a certain test result, keep holding the  or  button until the one you want appears.
11. To delete any test result from the memory, you, press the  button for at least 3 seconds. You will see “Del” flashing on the screen. Then press the  button again. This memory will be deleted and go to the next one automatically.
12. When you delete the individual memory, the “SEt” flashes on the screen.
13. After scrolling past the oldest reading in memory, the LCD display shows “Mem Del ALL?” on the screen for 1 minute.

14. To delete all the results in the memory, press the  button for at least 3 seconds. “----” message will be shown on the screen. This indicates that all results in the Memory have been deleted.

If you don't want to clear delete all test results, scroll to the individual result and press the  button and the meter turns off.

15. If you do not press the “M” button within 1 minute, the meter will turn off automatically. At any point in Memory mode if you want to shut the meter off, press the  button the meter will turn off and all settings will be automatically saved.

16. Results from tests with control solution are not included in calculating the 7, 14, 21 or 28 day Averages.



### Viewing Date, Time or Temperature

1. Press the  button date, time and clock symbol will be shown on the screen for 3 seconds and the meter will turn off automatically.



2. If the alarm has been set, the alarm symbol will be shown on the screen.



3. Press the button and the temperature, and thermometer symbol will be shown on the screen for 3 seconds and the meter will turn off automatically.

### **NOTE:**

To quickly adjust a certain number, keep pressing the or button until the one you want appears. At any steps if you want to shut the meter off, press the button for about 3 seconds and all setting will be automatically saved.

### **Alarm Notes**

1. The alarm duration is 30 seconds.
2. You can press any button and the alarm will stop.
3. Alarm will activate only in sleep mode. The alarm will not function while the meter is in use.

# BLOOD SAMPLING AND TESTING

## Finger Tip Blood Sampling



1. Wash hands in warm, soapy water. Rinse well and dry thoroughly.
2. Press a single use lancing device firmly onto the chosen site and draw a sufficient blood sample.
3. Dispose of lancet device in a suitable sharps container.

## NOTES

- Only an auto-disabling, single use lancing device should be used.
- A new pair of clean gloves should be worn by the user before testing each patient.
- Please refer to the section of "How to Clean Your Device" for more detailed information on Cleaning and Disinfection.
- You should wash hands thoroughly with soap and water after handling the meter, lancing device, or test strips.
- For more detailed information on cleaning and disinfection refer to "How to Clean and Disinfect Your Device."

## Testing Your Blood Glucose

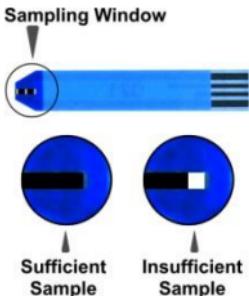


1. Take one Medi+Sure® test strip out of the test strip vial. Replace the vial cap immediately and close it tightly.
2. Insert this test strip with the black bars facing up into the test strip port of the meter. The meter turns on automatically.
3. You can also press the  button to turn on the meter, and a test strip symbol will instruct you to insert a test strip. Insert test strip within 1 minute.
4. You have 3 minutes to apply the blood sample. If you do not apply the sample within 3 minutes, the meter will turn off automatically.
5. Place the lancing device against the fingertip and press the trigger.

6. Pick up the meter and touch the blood drop to the edge of the application point of the test strip. The blood will be drawn into the test strip

automatically. You will hear a beep letting you know the countdown has begun.



7. Look at the sampling window on the test strip. If you have enough blood on the strip, you will not see any white. The sampling window will be completely filled with blood. If it doesn't have enough blood, it will look like the illustration on the right above.
8. When you hear a beep, the meter starts to count down from 6 seconds. After the countdown, the test result is displayed with date and time, and stored in the meter's memory.
9. If the test result is 13.3 mmol/L or higher, then an exclamation mark ! will be displayed on the screen.
10. Record the result in your Log Book.
11. Remove the test strip from the meter. Discard the used test strip and lancet in a puncture-proof container.  
When a result either falls in a hypoglycemic range, <2.8 mmol/L, or in the hyperglycemic range >13.9 mmol/L follow the steps below.

## **CAUTION:**

If you get a high or low reading

1. Repeat the test.
2. Test your meter using control solution.
3. If you still get a high or low reading, contact your health care professional.

The meter should be wiped with suitable disinfectant by following the directions in the section "How to Clean and Disinfect Your Device" in the User's Guide before using with another patient.

## Testing Control Samples



Prepare the test strip and Glucose Control Solutions.

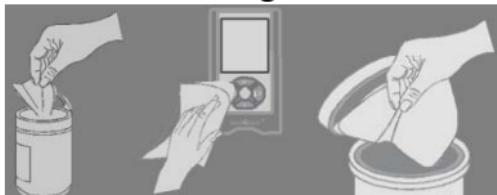
1. Press the button. The meter will power on.
2. Insert **Medi+Sure®** strip into the strip port.
3. Press the button to enter control mode. The button "L1" refers to Level 1. You can select L1, L2 or blood by pressing the or button.
4. When the control bottle symbol flashes on the meter, it means that you can start a control test. You have 3 minutes to apply the control solution. If you do not apply the control solution within 3 minutes the meter will turn off automatically.
5. Use a clean, wet tissue to wipe the strip vial cap top. Dry thoroughly.
6. Gently squeeze a drop onto the strip vial cap top.
7. Let the tip of the test strip touch the control solution drop.
8. Allow the solution to be automatically drawn into sampling window until it is completely filled.
9. After 6 seconds, the result will be shown on the screen.
10. Compare the control test result with the range printed on the label of the test strip vial.

### Note

In the control mode (L1 or L2), the test result will not be stored in the meter's memory. For detailed information please refer to the Glucose Control Solution instructions.

## HOW TO CLEAN AND DISINFECT YOUR DEVICE

### STEP 1: Clean Before Disinfecting



1. Dispense CaviWipes towelette.
2. Clean surface of your device with towelette to remove debris and bioburden.
3. Discard used towelette.

### STEP 2: Disinfect After Cleaning



1. Dispense CaviWipes towelette.
2. Disinfect pre-cleaned surface with towelette for 2 minutes.
3. Discard used towelette.

### Notes

1. Disinfect meter between each patient use.
2. After disinfection, user's gloves should be removed and hands washed before proceeding to the next patient.
3. The number of times the device can be cleaned and disinfected has been tested for up to 18,250 cycles.  
The recommended frequency to clean and disinfect in a multi patient setting is after each patient.

4. If the meter is being operated by a second person who is providing testing assistance to the user, the meter should be disinfected prior to use by the second user.
5. Wash hands thoroughly with soap and water after handling the meter, or test strips.

### **Why is the disinfection of this device required?**

The FDA in the USA has issued a new regulation regarding public health notifications highlighting the risk of transmission of disease from shared use of finger stick (lancing) devices, and point-of-care blood testing devices (blood glucose meters).

An **important** step in these regulations is to prevent a blood-borne pathogens being transmitted if there is shared use of a medical device. (e.g. Blood Glucose Meters and test strips).

The use of a 10% bleach solution is effective against viruses such as hepatitis B, but may lead to physical degradation of the meter. Following the disinfection protocol outlined below will prevent blood-borne pathogen transmission and ensure the device is not damaged.

### **Parts of the medical devices will require cleaning and disinfection**



**WHOLE CASE**

**DISPLAY SCREEN**

**ALL BUTTONS**

**TEST STRIP SLOT AREA**

**WE RECOMMEND THAT THE ENTIRE DEVICE BE DISINFECTED**

## **Information of CaviWipe disinfectant**

CaviWipes Disinfecting Towelettes are purchased from METREX RESEARCH CORP, and the EPA Reg. is 46781-8. CaviWipes are non-woven disposable towelette pre-saturated with CaviCide, and are intended for use in health care settings such as hospital, dental offices, laboratories, clinics, ophthalmic offices, veterinary facilities and in kitchens and bathrooms. CaviWipes are effective against the Hepatitis B Virus (HBV), Hepatitis C Virus (HCV) and Human Immunodeficiency Virus (HIV-1). The time to kill above viruses is 2 minutes.

Diisobutyl-phenoxy-enthoxyethyl dimethyl benzyl ammonium chloride is the active ingredient for using in CaviWipes Disinfecting Towelettes. It has been shown to be safe for the use the **Medi+Sure®** Blood Glucose Meter.

**Manufacturer: METREX RESEARCH CORPORATION.**

**Address: 28210 Wick Road Romulus, MI 48174**

**Tel: 1-(800) 841-1428 Website: [www.metrex.com](http://www.metrex.com)**

You can call the service line or go to the website of METREX for purchase information. If you still have questions on the section "How to Clean and Disinfect Your Device", please contact the **Medi+Sure®** Customer Assistance line 1-855-634-7873 for assistance.

## IMPORTANT NOTES

### Caring For Your Meter

Taking care of your meter is important. Please follow the guidelines shown below :



1. Do not disassemble your meter. If you have any questions, please contact **Medi+Sure®**.
2. Please use your meter carefully. Avoid throwing, shaking, or dropping it, which may cause damage.
3. Clean the meter's surface – refer to “How to Clean and Disinfect Your Device”
4. Do not wash or pour liquid on the meter.

### Handling & Storage

1. Handle your meter with care and protect it from direct sunlight or extremely high or low temperature.
2. Do not expose your meter and test strips to an environment of high humidity, such as in bathrooms, kitchens, etc.
3. Keep your meter free of dust.
4. It is recommended that you use the carrying case that is designed to store and protect your **Medi+Sure®** Blood Glucose Monitoring System.
5. Put your system in an appropriate operating environment at least 30 minutes before testing.

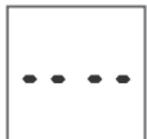
### Explanation of Displays



#### All-symbol Message:

When you press the “M” button or insert a test strip into the meter, all symbols will be displayed together for 2 seconds. Then the meter turns on automatically.

## No Memory in the Meter Message:



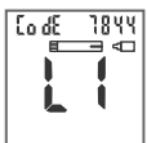
If there is no memory in the meter, you press  button two times and the meter shows “----”.

## Sample Application Message:

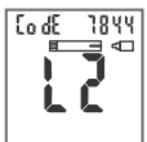
This requires you to apply the blood sample or control solution to the test strip after inserting a test strip.



Apply Blood sample



Apply Control solution L1



Apply Control solution L2

## Test Result Message:



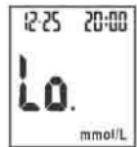
The meter shows results ranging from 1.1 to 41.7 mmol/L with respective dates and times.

### **HI Message:**



If the test result is higher than 41.7 mmol /L the “HI” message is displayed.

### **Lo Message:**



If the test result is lower than 1.1 mmol /L the “Lo” message is displayed.

## ERROR MESSAGES AND TROUBLESHOOTING

When you operate the meter incorrectly, error messages are displayed. Each message is defined below.

### **Cause:**

Test strip was removed during testing.

Damaged or used test strip was used.

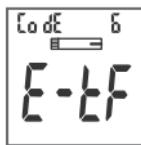
The blood sample was applied before inserting the test strip.

The blood sample or control solution was applied without the blood drop or control bottle symbol flashed.

### **Action:**

1. Do not remove the test strip before the result is displayed.
2. Repeat the test with a new test strip.
3. Insert the test strip into the meter first and then apply the blood sample.
4. Apply the blood sample or control solution after the blood drop or control bottle symbol flashes.

Contact: **Medi+Sure®** for any of these four errors.





**E-t**

**Cause:**

The system is operating outside the appropriate temperature range 10°~40°C.

**Action:**

Move your meter and test strips to a place where the temperature is appropriate for running a test. Wait at least 30 minutes and test again.



**E-b**

**Cause:**

The battery is low.

**Action:**

Replace the battery soon.

## EXPECTED VALUES<sup>1</sup>

Expected blood glucose levels for people without diabetes:	
Time	Range (mmol/L)
Fasting	< 7.0
Two Hours After Meal	< 11.1

<sup>1</sup>American Diabetes Association: Diabetes Care, Volume 35, Supplement 1, January 2012, S4

## **METER WARRANTY**

Medi+Sure Canada Inc. warrants, to the original purchasers of the **Medi+Sure®** Blood Glucose Meter, that your meter shall be free of defects in materials and workmanships under a life time warranty from the date of purchase. If the **Medi+Sure®** meter does not work properly because of defects in materials or workmanships, Medi+Sure Canada Inc. will replace it with an equivalent product or repair it at no cost to the purchaser. This warranty does not apply to the battery supplied with the meter or to a meter that has been modified, altered, abused, or misused in any way. Medi+Sure Canada Inc. shall not be responsible for any incidental or consequential damages.

### **NO OTHER WARRANTIES, EXPRESS, OR IMPLIED ARE MADE.**

Please contact **Medi+Sure®** at 1-855-634-7873 for assistance if you have any questions about the warranty service.

## Log Book

DATE	TIME	TEST RESULT	AC / PC	NOTES/Patient Name
			<input type="checkbox"/> AC <input type="checkbox"/> PC	
			<input type="checkbox"/> AC <input type="checkbox"/> PC	
			<input type="checkbox"/> AC <input type="checkbox"/> PC	
			<input type="checkbox"/> AC <input type="checkbox"/> PC	
			<input type="checkbox"/> AC <input type="checkbox"/> PC	
			<input type="checkbox"/> AC <input type="checkbox"/> PC	
			<input type="checkbox"/> AC <input type="checkbox"/> PC	
			<input type="checkbox"/> AC <input type="checkbox"/> PC	
			<input type="checkbox"/> AC <input type="checkbox"/> PC	

**NOTES:**

## Personal Information

Name	
Address	
Home Phone	
Mobile Phone	
Hospital	
Physician	
Email	
Diagnosis Date	

**Additional Information:**